

UVC Series

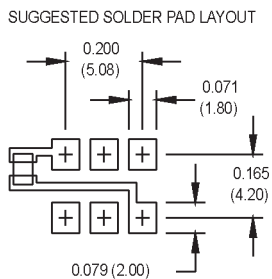
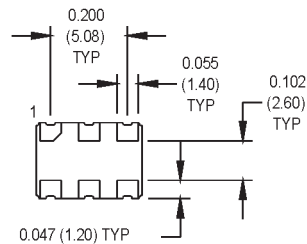
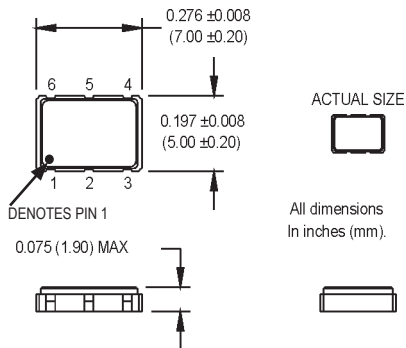
5x7 mm, 3.3 Volt, LVPECL/LVDS, Clock Oscillators



Ordering Information

Product Series	UVC	1	8	R	L	N	00.0000 MHz
Temperature Range	1: 0°C to +70°C	2: -40°C to +85°C					
	6: -20°C to +70°C	7: -0°C to +85°C					
	8: 0°C to +50°C						
Stability	3: ±100 ppm	4: ±50 ppm					
	6: ±25 ppm	8: ±20 ppm					
Output Type	R: Complementary Enable						
	Z: Complementary w/o Enable						
Symmetry/Output Logic Type	L: 45/55% LVDS	P: 45/55% PECL					
	H: 40/60% LVDS	Q: 40/60% PECL					
Package/Lead Configurations	N: Leadless Ceramic (6 pads)						
Frequency (customer specified)							

M2022Sxxx - Contact factory for datasheet.



Pad Connections

Pad	Function
1	Enable/Disable for "R" Output Type or N/C for "Z" Output Type
2	N/C
3	Ground
4	Output Q
5	Complementary Output $\bar{Q}$
6	+ Vdd

PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
Frequency Range	F	0.75		800	MHz	
Operating Temperature	T _A	(See ordering information)				
Storage Temperature	T _S	-55		+125	°C	
Frequency Stability	ΔF/F	(See ordering information)				
Aging						See Note 1
1st Year		-3		+3	ppm	
Thereafter (per year)		-1		+1	ppm	
Input Voltage	V _{CC}	3.135	3.3	3.465	V	
PECL Input Current	I _{CC}			70	mA	0.75 to 24 MHz
				100	mA	24 to 96 MHz
				110	mA	96 to 800 MHz
LVDS Input Current	I _{CC}			30	mA	0.75 to 24 MHz
				60	mA	24 to 96 MHz
				60	mA	96 to 800 MHz
Output Type						PECL/LVDS
Load						See Note 2
						50 Ohms to V _{CC} - 2 VCD
						100 Ohm differential load
Symmetry (Duty Cycle)						See Note 2
						PECL Waveform
						LVDS Waveform
Output Skew				200	ps	@ 50% of waveform
Differential Voltage	V _{OD}	250	350	450	mV	PECL
Logic "1" Level	V _{OH}	V _{CC} -1.02			V	LVDS
Logic "0" Level	V _{OL}			V _{CC} -1.63	V	PECL
Rise/Fall Time	T _r /T _f		0.35	0.55	ns	@ 20/80% LVPECL
			0.50	1.0	ns	@ 20/80% LVDS
Enable Function		80% V _{CC} min or N/C: output active				Output Option R
		20% V _{CC} max: output disables to high-Z				
Start up Time				10	ms	
Phase Jitter (Typical)	φ _J		3	5	ps RMS	Integrated 12 kHz – 20 MHz
Environmental						
Mechanical Shock		MIL-STD-202, Method 213, C (100 g's)				
Vibration		MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)				
Thermal Cycle		MIL-STD-883, Method 1010, B (-55°C to +125°C, 15 min dwell, 10 cycles)				
Hermeticity		MIL-STD-202, Method 112				
Solderability		Per EIAJ-STD-002				
Max Soldering Conditions		See solder profile, Figure 1				

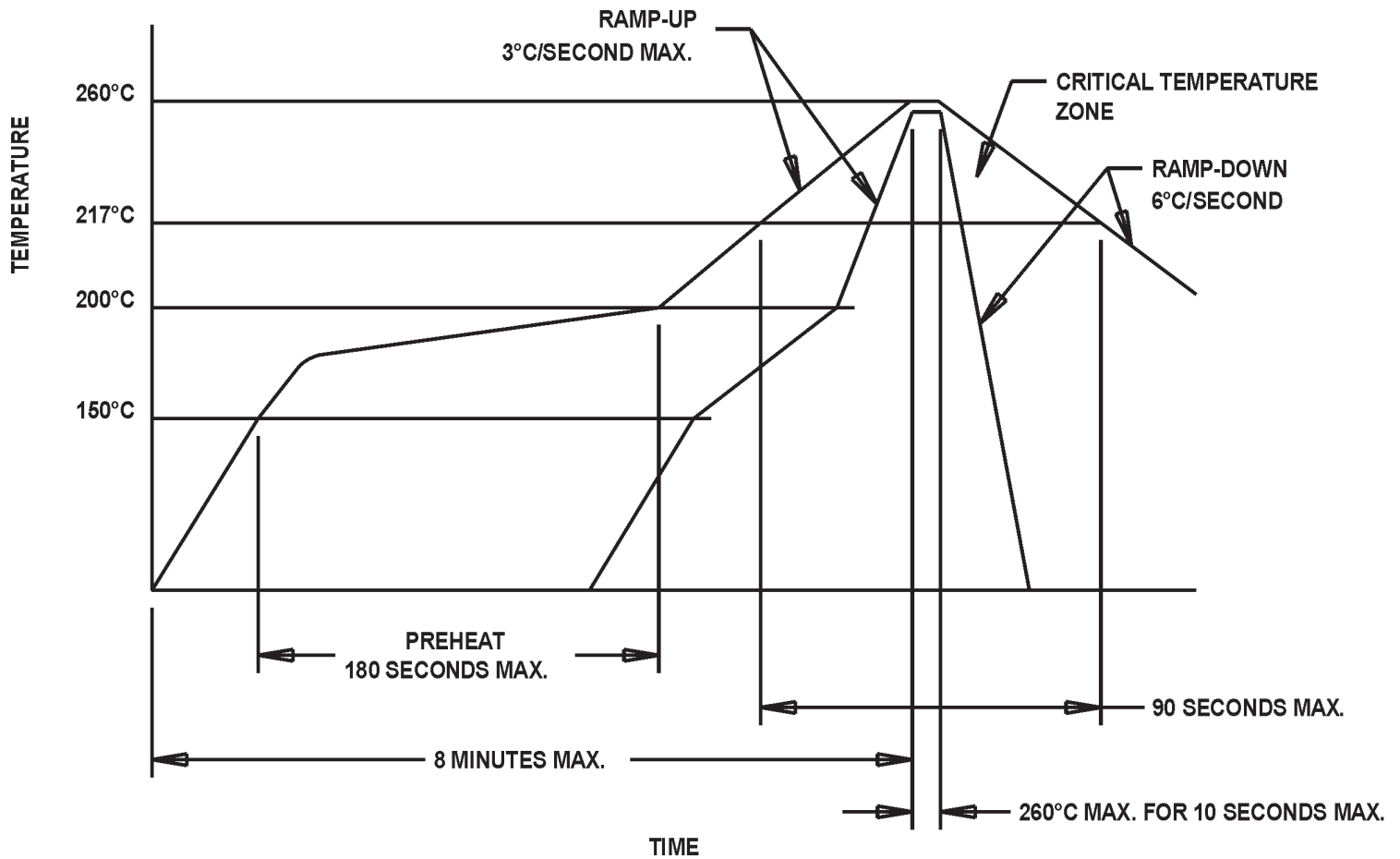
1. Inclusive of initial tolerance, deviation over temperature, shock, vibration, voltage and aging.
2. PECL load - see Load Circuit Diagram #5. LVDS load - see load circuit diagram #9.

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

Revision: 8-22-08

MtronPTI Lead Free Solder Profile



MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.